Is the OVS community open enough?

Thomas Graf
Noiro Networks, Cisco
Cumulated Added Lines of Code per Author

- Ben Pfaff
- Ethan Jackson
- Justin Pettit
- Jesse Gross
- Jarno Rajahalme
- Gurucharan Shetty
- Simon Herman
- Alex Wang
- Pravin-B Shelar
- Joe Stringer
- Andy Zhou
- YAMAMOTO Takashi
- Thomas Graf
- Daniele Di Proietto
- Nithin Raju
- Flavio Leitner
- Russell Bryant
- Alin Serdean
- Sorin Vinturici
- Ansis Attelea

Lines


Open vSwitch
Conclusion #1

Ben is a coding machine
<table>
<thead>
<tr>
<th>Month</th>
<th>Author</th>
<th>Commits (%)</th>
<th>Next top 5</th>
<th>Number of authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-11</td>
<td>Jarno Rajahalme</td>
<td>4 (21.05% of 19)</td>
<td>Justin Pettit, Ben Pfaff, Russell Bryant, Andy Zhou, Sairam Venugopal</td>
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<tr>
<td>2015-10</td>
<td>Ben Pfaff</td>
<td>47 (33.57% of 140)</td>
<td>Justin Pettit, Gurucharan Shetty, Russell Bryant, Jarno Rajahalme, Andy Zhou</td>
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<tr>
<td>2015-09</td>
<td>Ben Pfaff</td>
<td>27 (18.37% of 147)</td>
<td>Joe Stringer, Alin Serdean, Andy Zhou, Justin Pettit, Thadeu Lima de Souza Cascardo</td>
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<td>2015-08</td>
<td>Alex Wang</td>
<td>25 (17.99% of 139)</td>
<td>Jarno Rajahalme, Ben Pfaff, Justin Pettit, Russell Bryant, Joe Stringer</td>
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<td>2015-07</td>
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<td>Joe Stringer, Andy Zhou, Sorin Vinturis, Jarno Rajahalme, Alex Wang</td>
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<td>2015-06</td>
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<td>2015-05</td>
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<td>2015-04</td>
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<td>2015-03</td>
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<td>2015-02</td>
<td>Ben Pfaff</td>
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<td>2015-01</td>
<td>Ben Pfaff</td>
<td>24 (28.92% of 83)</td>
<td>Thomas Graf, Gurucharan Shetty, Joe Stringer, Jarno Rajahalme, Flavio Leitner</td>
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<td>2014-12</td>
<td>Thomas Graf</td>
<td>14 (17.28% of 81)</td>
<td>Joe Stringer, Jarno Rajahalme, Alex Wang, Ben Pfaff, YAMAMOTO Takashi</td>
<td>18</td>
</tr>
</tbody>
</table>
Commits by domain since beginning
Kernel commits by domain since beginning
Conclusion #2

Majority of commits are still from Nicira team but it is balancing out.
The Real Question:
Is the OVS community effective as a team?

Successful community efforts which required a full stack collaboration:

- OVN
- Stateful services (conntrack/NAT/…)
- Generic datapath (Lightweight tunnels, eBPF, …)
Becoming a committer is simple

2. No company policy
Example:

- OVS community contributed the concept of lightweight, scalable tunnels to the Linux kernel in a collaborative effort (Red Hat, VMWare, Cisco).

- The kernel community reaction:

  Pull request David S. Miller to Linus Torvalds:

  “Another merge window, another set of networking changes. I've heard rumblings that the lightweight tunnels infrastructure has been voted networking change of the year. But what do I know?”
OVS is one of the most effective and well governed open source projects I’ve worked on.
Thank You

Statistics source:

- [http://www.infradead.org/~tgr/ovsstats/](http://www.infradead.org/~tgr/ovsstats/)

To get in touch:

- E-Mail: tgraf@suug.ch
- Twitter: @tgraf__